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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,424	10/25/2001	Timothy Bowles	C-326	3486
7590 02/15/2005			EXAMINER	
SUN CHEMICAL CORPORATION			ROBERTSON, JEFFREY	
222 Bridge Plaza South Fort Lee, NJ 07024			ART UNIT	PAPER NUMBER
·			1712	· · · · · · · · · · · · · · · · · · ·
	•		DATE MAIL ED: 02/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on 09 December 2004.  2a)☐ This action is FINAL. 2b)⊠ This action is non-final.  3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)☑ Claim(s) 1-25 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)☑ Claim(s) 10-21.23 and 25 is/are allowed.  6)☑ Claim(s) 1.3 and 7-9 is/are rejected.  7)☑ Claim(s) 3.3 and 7-9 is/are rejected.  7)☑ Claim(s) 2.4-6.22 and 24 is/are objected to.  8)☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)☐ The specification is objected to by the Examiner.  10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.125(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)☐ All b)☐ Some * c)☐ None of:  1.☐ Certified copies of the priority documents have been received in Application No  3.☐ Copies of the certified copies of the priority documents have been received in Application No  3.☐ Copies of the certified copies of the priority documents have been received in Application No  3.☐ Copies of the certified copies of the priority documents have been received in Application No  3.☐ Copies of the certified copies of the priority documents have been received in Application No  3.☐ Copies of the certified copies of the priority documents have been received in Application From the International Burea		Application No.	Applicant(s)				
Jeffrey B. Robertson   1712	Office Action Summany	10/046,424					
— The MALING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  Elementor of time may be available under the provisions of 3 CFR 1.136(a). In ro event, however, may a reply be timely filed in the period for reply specified store is less than thirty (30) days, and provided the period of the period for reply specified store is less than thirty (30) days, and provided the period of the communication of the period for reply specified store is less than thirty (30) days, and the period of the communication of the period for reply specified store is less than thirty (30) days, and the communication of the period of the period of the communication of the period of the application of the above claim(s)	Office Action Summary	Examiner	Art Unit				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - and SIX (9) MONTTS from the mailing date of this communication.  - if the period for early specified above. The mailing date of this communication is the period to reply specified above. The mailing date of this communication is the period to reply specified above. The mailing date of this communication is the period to reply specified above. The mailing date of this communication is specified above. The mailing date of this communication is specified above. The mailing date of this communication is specified above. The mailing date of this communication is specified above. The mailing date of this communication, even if limely flext, may reduce any search of the period will apply and well express XI (8) MONTHS from the mailing date of this communication, even if limely flext, may reduce any search of the period will apply any well express XI (8) MONTHS from the mailing date of this communication, even if limely flext, may reduce any search of the period will apply any well apply and well apply and well apply and the period will apply any the search of this communication.  - Any well preceduled by the Total expression of the period will apply any the search of the period will apply any the s							
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Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  Notice of References Cited (PTO-892)  Notice of Processon's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date  Notice of Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
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a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.  Attachment(s)  1) ☑ Notice of References Cited (PTO-892)  2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  5) ☐ Notice of Informal Patent Application (PTO-152)	Priority under 35 U.S.C. § 119						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	<ul> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> </ul>						
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	2) Notice of Draftsperson's Patent Drawing Review (PTO-948)						
		aton Application (FTO-102)					

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 3, 7, and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Anderson et al. (U.S. Patent No. 6,194,498).

For claims 1, 3, and 9, in Column 8, lines 45-62, Example A, Anderson teaches the preparation of a halosulfonyl compound containing a monocyclic monoaryl group along with a diamine in the presence of an acid acceptor. For claim 7, here, Anderson teaches JEFFAMINE D-400, a polyether containing polymeric diamine. The product produced from this reaction would inherently be able to function as a pigment dispersing agent.

# Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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- 4. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Anderson et al. (U.S. Patent No. 6,194,498) as applied to claim 1 above.

For claim 1, Anderson teaches the limitations of the claim as detailed above. In Example A, Anderson teaches that potassium carbonates may be used as acid acceptors. Anderson fails to expressly teach sodium carbonate.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use sodium carbonate as an acid acceptor. The motivation would have been that Weaver teaches the broad genus of alkali metal carbonates. Sodium

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carbonate is a well-known and common alkali metal carbonate, and thus one of ordinary skill in the art would have been motivated to use such a carbonate in exercising the invention.

### Response to Arguments

7. Applicant's arguments with respect to claims 1, 3, and 7-9 have been considered but are moot in view of the new ground(s) of rejection. In addition, regarding the addition of "monocyclic" and "aliphatic" to claim 1, the examiner's position is that there is adequate support in the specification for these limitations. Specifically, the JEFFAMINE products disclosed in the specification are well known aliphatic amines, and therefore provide support for the use of "aliphatic" in the claims. In addition, by the same reasoning, paratoluene sulfonyl chloride provides support for monocylic aromatics.

### Allowable Subject Matter

- 8. Claims 10-21, 23, and 25 are allowed.
- 9. Claims 2, 4-6, 22, and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Krepski et al. (U.S. Patent No. 5,951,749) is cited for general interest.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey B. Robertson whose telephone number is (571) 272-1092. The examiner can normally be reached on Mon-Fri 7:00-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy P Gulakowski can be reached on (571) 272-1302. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey B. Robertson Primary Examiner Art Unit 1712

**JBR**